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|-------------------------------|------------------------|---------------------|--|
| <b>Notice of Allowability</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                               | 10/666,145             | DUGGAL, ANIL RAJ    |  |
|                               | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                               | Thuy V. Tran           | 2821                |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/22/2003 & Interview held on 09/27/2004.
2. ☒ The allowed claim(s) is/are 34 and 37-39.
3. ☒ The drawings filed on 22 September 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>092704</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>05/19/2004</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                                 | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                       |
|  | 9. <input type="checkbox"/> Other _____.   |

  
 Thuy V. Tran  
 Examiner  
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### **DETAILED ACTION**

This is a response to the Applicant's filing on 09/22/2003 and the telephone interview held on 09/27/2004. In virtue of this filing and this telephone interview:

- Claims 1-39 were originally filed;
- Claims 1-33 were canceled as of 09/22/2003;
- Claims 35-36 are canceled in virtue of this telephone interview; and thus
- Claims 34 and 37-39 are now presented in the instant application.

#### ***Examiner's amendment***

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Toan P. Vo on 09/27/2004. The amendment includes:

In the claims:

Claim 34, line 2, insert --including a first set and a second set-- between "OLEDs and ",";

Claim 34, line 3, change "a" (first occurrence) to --the--;

Claim 34, line 4, change "the same" to --a--;

Claim 34, line 5, change "a" (first occurrence) to --the--;

Claim 34, line 7, change "." to --;--;

Claim 34, in the line following the line 7, add:

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--the method further comprising mounting the array of individual OLEDs on a common substrate;

wherein the step of forming the array of OLEDs comprising forming each OLED and forming the array of OLEDs, and

wherein the step of forming each OLED comprises:

forming a transparent electrode over a first substrate;

forming a polymer or molecular organic light emitting layer over the transparent electrode;

forming a metal electrode over the organic light emitting layer;

forming a sealing member above the metal electrode;

removing a portion of the organic light emitting layer above the transparent electrode to expose a first portion of a top surface of the transparent electrode;

forming a first metal device contact over the sealing member, which contacts the first portion of the top surface of the transparent electrode;

forming a second metal device contact over the sealing member, which contacts a top surface of the metal electrode; and

wherein the step of forming the array comprises:

forming an adhesive layer over the mounting substrate;

attaching each OLED over the adhesive layer;

forming electrical contacts through the mounting substrate and the adhesive layer which contact the first and second device contacts; and

forming the layer of scattering medium over the first substrate.--;

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Claim 35: canceled;

Claim 36: canceled;

Claim 37, line 1, change "35" to --34--;

Claim 38, line 1, change "35" to --34--; and

Claim 39, line 1, change "35" to --34--.

***Allowable Subject Matter***

2. Claims 34 and 37-39 are allowed.

***Reasons for Allowance***

3. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose or fairly suggest a method of making a light emitting device wherein the step of forming the array comprises:

forming an adhesive layer over the mounting substrate;

attaching each OLED over the adhesive layer;

forming electrical contacts through the mounting substrate and the adhesive layer which contact the first and second device contacts; and

forming the layer of scattering medium over the first substrate,

in combination with the remaining claimed limitations as called for in independent claim 34

(claims 37-39 are allowed since they are dependent on claim 34).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Citation of relevant prior art***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prior art Tang et al. (Pub. No.: US 2002/0011785 A1) discloses a full color active matrix organic EL display device.

Prior art Liu et al. (Pub. No.: US 2001/0026124 A1) discloses an organic light emitting diode device.

Prior art Duggal et al. (U.S. Patent No. 6,700,322) discloses a light source with organic layer and photoluminescent layer.

Prior art Duggal et al. (U.S. Patent No. 6,515,417) discloses an organic light emitting device.

Prior art May (U.S. Patent No. 6,395,328) discloses an organic light emitting diode color display.

Prior art Forrest et al. (U.S. Patent No. 6,264,805) discloses a method for fabricating organic devices.

Prior art Sun et al. (U.S. Patent No. 6,091,197) discloses a full color tunable resonant cavity organic light emitting diode.

Prior art So et al. (U.S. Patent No. 5,773,130) discloses a multicolor organic EL device.

Prior art Forrest et al. (U.S. Patent No. 5,707,745) discloses multicolor organic light emitting devices.

Prior art Simon et al. (U.S. Patent No. 5,451,980) discloses a flat panel device with scattering layer.

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Prior art Norman et al. (U.S. Patent No. 5,424,560) discloses an integrated multicolor organic LED array.

Prior art Topp et al. (U.S. Patent No. 4,614,668) discloses a method for fabricating EL organic devices.

Prior art Ohshima et al. (U.S. Patent No. 4,015,166) discloses an organic EL device.

***Inquiry***

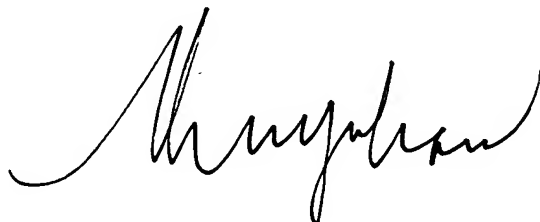
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thuy V. Tran  
Examiner  
Art Unit 2821

09/27/2004

A handwritten signature in black ink, appearing to read 'Thuy V. Tran', is written over the printed name and title.